

Administrative Operating Compliance Safety

Critical Non - Critical

Policy Statement

When **any known utility is within 10 feet** of a deep foundation (pile, shaft, etc) location, this policy must be strictly adhered to.

"Within 10 feet" includes underground, horizontally, vertically, overhead or above ground.

"Any utility" includes electrical, gas, data, sewer, water, chemical, process, etc..

Note: Minimum approach distance from live electrical lines must be adhered to in accordance with **OSHA CFR 1926.1411 Table T (attached)**.

Rationale and Background

In addition to hazards associated with gas/electrical utilities, Cajun recognizes the potential impact of compromising any utility in an operating facility regardless of type.

Goal

To notify the appropriate management personnel in order to develop an action plan to reduce the potential for risk or service disruptions associated with disturbing or damaging a utility. This includes both subsurface and above-ground utilities.

Authority

This policy was put into force by Cajun Management

Order of Operations

If it is determined that this policy applies, there are 4 orders of operation:

- 1.) **ESTIMATE PHASE:** If it is determined that this policy applies during the estimate stage, the following personnel must be notified for assessment and constructability review:
 - i. Director of Operations
 - ii. Director of Field Operations
 - iii. Director of Safety
 - iv. Manager of Estimating
 - The estimator must pursue and confirm the following information:
 - Determination of utility type (gas, electrical, process line etc.)
 - Client procedure for dealing with close proximity utilities
 - Possibility for relocation of utilities or deep foundation
 - Review of drawings, probing documentation, etc.
 - Options for probing or exposing the utility
 - Determination of constructability
- 2.) **PRECONSTRUCTION PHASE:** A written plan of action must be detailed on page 7 of the Project Risk Assessment Plan (*Mitigation Plan for Installing Foundations Near Known Utilities*) and approved by the Director of Safety and Director of Operations. A paper copy of the plan must be given to the superintendent and be kept on the jobsite. It should address the following:
 - i. Type of utility
 - ii. Proximity and minimum approach
 - iii. Options for probing, hydro-excavating, locating, etc.
 - iv. Options for relocating, protecting, or de-energizing the utility

3) **CONSTRUCTION PHASE:** If it is determined that a portion of the work cannot be executed according to the *Mitigation Plan for Installing Deep Foundations Near Known Utilities*, STOP work and notify the Project Manager, Director of Operations, Director of Field Operations, Director of Safety and Construction Manager. Make a determination of whether or not the work can be safely executed with additional and /or revised mitigation efforts.

- If the work can be executed safely with additional and/or revised mitigation efforts, formally modify the *Mitigation Plan for Installing Deep Foundations Near Known Utilities* to take into account any new information and mitigation efforts.
 - If the work cannot be executed safely with additional and/or revised mitigation efforts, the client must be notified and the work CANNOT PROCEED.
- b. If an additional or originally unidentified utility is discovered within 10 feet of a deep foundation location after the project start, STOP work and notify the Project Manager, Director of Operations, Director of Field Operations, Director of Safety and Construction Manager. The following steps must be taken.
- The Project Manager must pursue and confirm the following information:
 - Determination of utility type (gas, electrical, process line, etc.)
 - Client procedure for dealing with close proximity utilities
 - Possibility of relocation of utilities or deep foundation
 - Review of drawings, probing documentation, etc.
 - Options for probing or exposing the utility
 - Determination of constructability
 - A written plan of action to address the additional, or originally unidentified, utility must be detailed on page 7 of the Project Risk Assessment Plan (*Mitigation Plan for Installing Deep Foundations Near Known Utilities*) and approved by the Director of Safety and Director of Operations

4) AS-BUILT PHASE (POST CONSTRUCTION):

a. As-Builts of the deep foundation location should be taken immediately after deep foundation installation to verify there was no contact with the utility.



Exemptions

There are no exemptions to this policy.

Deviations and Consequences

Types of Deviations (What could cause an injury)	Consequences (What can be done to minimize the risk of injury)
Not following the policy	Disciplinary action up to termination.
Proceeding without engineering/administrative controls	Serious injury or fatality Can cause major disruptions to owner processes

Responsibilities

Senior Vice President	Approval of this procedure, subsequent changes and variance.
Director of Safety	Approval of this procedure, subsequent changes and variance.
Director of Field Operations and Construction Manager	Approval of this procedure, subsequent changes and variance. Ensure training and understanding for appropriate personnel.
Superintendent	Ensure 100% compliance at all times to the procedure.
Project Manager	Ensure this policy is included in pre-construction phase

Safety

Failure to adhere to this policy and prevent people from exposure can expose employees to SIF potential.

Forms and Checklists

Estimating checklist to include this policy
Pre-construction Agenda to include this policy
Project Risk Assessment

References/Resources

OSHA CFR 1926 | <https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.1411>

First Level Review

Role	Signature	Date
Director of Field Operations		10/15/18
Director of Driven Piling		
Director of Drilled Piling		10/15/18
Director of Drilled Shafts and Helical Piling		10/15/18

Approvals

Role	Signature	Date
Senior Vice President		10/15/18
Director of Safety		10/15/18

DOCUMENT ACKNOWLEDGEMENT FORM

Document Name: (please print neatly)	
Date: (please print neatly)	<i>By signing, I acknowledge the information in this document and agree to work in accordance with it</i>
	<input type="checkbox"/> New Training <input type="checkbox"/> Refresher Training

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